

ABSTRACT

Faster discrete cosine transforms that use scaled terms are disclosed. Prior to application of a transform, equations are arranged into collections. Each collection is scaled by dividing each of the discrete cosine transform constants in the collection by one of the discrete cosine transform constants from the collection. Each of the scaled discrete cosine transform constants are then represented with approximated sums of powers-of-2. During the execution phase the block of input data is obtained. A series of predetermined sums and shifts is performed on the data. The output results are saved.

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